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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,890	06/05/2007	Frank Duvinage	095309.57817US	8715
23911 CROWELL & I	7590 04/16/200 MORING LLP	EXAMINER		
INTELLECTUAL PROPERTY GROUP P.O. BOX 14300 WASHINGTON, DC 20044-4300			TRAN, BINH Q	
			ART UNIT	PAPER NUMBER
			3748	
			MAIL DATE	DELIVERY MODE
			04/16/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Commons	10/581,890	DUVINAGE ET AL.			
Office Action Summary	Examiner	Art Unit			
	BINH Q. TRAN	3748			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on					
	-· action is non-final.				
<i>,</i> —	, 				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
		3.3.2.2.6			
Disposition of Claims					
4)⊠ Claim(s) <u>9-25</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) <u>9-25</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
,	·				
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Exa		• •			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 					
	_				
	2. Certified copies of the priority documents have been received in Application No				
_ .	3. Copies of the certified copies of the priority documents have been received in this National Stage				
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 06/06/2006. 5) Notice of Informal Patent Application 6) Other:					
т ары тиодоўлиан Date <u>одгод 2000</u> .					

DETAILED ACTION

Receipt and entry of Applicant's Preliminary Amendment dated May 16, 2006 is

acknowledged.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature

of the invention specified in the claims. Therefore, the "storage tank, closure apparatus,

components for level monitoring, warning signal etc..." in all of the claims, must be shown or the

feature(s) canceled from the claim(s). The examiner suggests that applicants should submit a new

drawing to show all the above elements. No new matter should be entered.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and

distinctly claiming the subject matter which the applicant regards as his invention.

Claims 10-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as the

invention. More specifically,

In claims 10-13, the phase "may be" is indefinite. The phase has been held that the

recitation that an element is "may be" performing a function is not a positive limitation but only

requires the ability to so perform. It does not constitute a limitation in any patentable sense. In re

Hutchison, 69 USPQ 138.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for

patent by another filed in the United States before the invention by the applicant for patent, except that an

international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United

States and was published under Article 21(2) of such treaty in the English language.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who

has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention

thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000.

Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior

to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 9-25 are rejected under 35 U.S.C. 102 (b) as being anticipated by Liang et al.

(Liang) (Patent Number 6,363,771).

Regarding claims 9, 16, and 19-20, Liang discloses an exhaust gas purification system

and method for a motor vehicle having a predetermined maintenance interval, comprising: a

reducing agent storage tank (e.g. 12) for storing a reducing agent intended for exhaust gas

purification, wherein the reducing agent storage tank is configured to have a capacity that is at

least equal to a level predetermined by an assumed reducing agent consumption during the

maintenance interval (e.g. See col. 3, lines 1-67).

Regarding claims 10, Liang further discloses wherein the reducing agent storage tank has a closure apparatus (e.g. 14, 20, 40) which <u>may be</u> opened for refilling purposes, the closure apparatus being configured to protect against being opened other than during a maintenance operation (e.g. See col. 3, lines 1-67).

Regarding claim 11, Liang further discloses wherein the reducing agent storage tank has a closure apparatus which may be opened for refilling purposes, the closure apparatus being configured to protect against being opened other than by authorized persons (e.g. See col. 3, lines 1-67).

Regarding claim 12, Liang further discloses wherein the reducing agent storage tank has a closure apparatus which may be opened for refilling purposes, the closure apparatus being configured to protect against being opened other than after the maintenance interval has elapsed (e.g. See col. 3, lines 1-67).

Regarding claim 13, Liang further discloses wherein said system is provided with components for level monitoring for the purpose of monitoring the quantity of reducing agent that is present in the reducing agent storage tank, so that a warning signal (e.g. 38, 42, 62) may be sent when the quantity of reducing agent drops below a determined residual quantity (e.g. See col. 3, lines 1-67).

Regarding claim 14, Liang further discloses wherein said residual quantity is determined based on an assumed consumption rate and the remaining running time until the end of the maintenance interval (e.g. See col. 3, lines 1-67).

Regarding claim 15, Liang further discloses wherein said residual quantity is determined based on a measured consumption rate and the remaining running time until the end of the maintenance interval (e.g. See col. 3, lines 1-67).

Regarding claim 17, Liang further discloses wherein the steps of unlocking a closure device for the reducing agent storage tank and refilling the reducing storage tank are conducted during a maintenance operation (e.g. See col. 3, lines 1-67).

Regarding claim 18, Liang further discloses wherein the steps of unlocking a closure device for the reducing agent storage tank and refilling the reducing storage tank are conducted after the end of the maintenance interval (e.g. See col. 3, lines 1-67).

Regarding claim 21, Liang further discloses the steps of: determining a consumption rate for the reducing agent, determining a reducing agent consumption quantity which is to be expected by the end of the maintenance interval, and sending a warning signal if the expected consumption quantity exceeds the quantity of reducing agent in the reducing agent storage tank (e.g. See col. 4, lines 1-67).

Regarding claim 22, Liang further discloses effecting intervention measures to reduce a consumption rate for the reducing agent after a predetermined motor vehicle running distance has been exceeded following a warning signal being sent (e.g. See col. 4, lines 1-67).

Regarding claim 23, Liang further discloses effecting intervention measures to reduce a consumption rate for the reducing agent after a predetermined motor vehicle running distance has been exceeded following a warning signal being sent (e.g. See col. 4, lines 1-67).

Regarding claim 24, Liang further discloses restricting the driving speed of the motor vehicle or the rotational speed of the motor vehicle drive engine is restricted after a

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predetermined motor vehicle running distance has been exceeded following a warning signal being sent (e.g. See col. 4, lines 1-67).

Regarding claim 25, Liang further discloses restricting the driving speed of the motor vehicle or the rotational speed of the motor vehicle drive engine is restricted after a predetermined motor vehicle running distance has been exceeded following a warning signal being sent (e.g. See col. 4, lines 1-67).

Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure and consists of five patents:

Stiermann et al. (Pat. No. 7017336), Tarabulski et al. (Pat. No. 6063350), Murphy et al. (Pat. No. 5964089), Cramer et al. (Pat. No. 6876908), and Esteghlal et al. (Pat. No. 6260411) all discloses an exhaust gas purification for use with an internal combustion engine.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Binh Tran whose telephone number is (571) 272-4865. The examiner can normally be reached on Monday-Friday from 8:00 a.m. to 4:00 p.m.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Thomas E. Denion, can be reach on (571) 272-4859. The fax phone numbers for the organization

where this application or proceeding is assigned are (571) 273-8300 for regular communications

and for After Final communications.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/BINH Q. TRAN/

Binh Q. Tran

Primary Examiner, Art Unit 3748

April 11, 2008